## Prelab5

Wednesday, November 11, 2020 3:58 PM

1. 
$$d_{i}$$
th = sin (217 (941)t + sin (217 (1336)t)  
 $w_{o} = 217$   $\epsilon$ in (1882t) + sin (247217t)  
=  $\frac{1}{2i}$  (e)kwt - e<sup>-ikwt</sup>) +  $\frac{1}{2i}$  (e)wt - e<sup>-ikwt</sup>)

$$= 1 e^{j \cdot 941(2\pi^2)6} - \frac{1}{2j} e^{-j \cdot 941(2\pi)t} + \frac{1}{2j} e^{j \cdot (1336)2\pi t} - \frac{1}{2j} e^{-j \cdot (336)2\pi t}$$

$$C_{941} = \frac{1}{2j}$$
  $C_{-941} = \frac{-1}{2j}$   $C_{1336} = \frac{1}{2j}$   $C_{7336} = \frac{-1}{2j}$  for  $941 = 12$ ,  $12 = 12$ 

2. np.array([941,1336], [697,1207], [697,1336], [697,1477], [770,1336], [770,1336], [770,1336], [770,1477], [852,1209], [852,1477])